

IN THE CLAIMS:

1-28. (Cancelled)

29. (New) A method for identifying an HLA genotype of a subject, the method comprising:

(a) obtaining a sample comprising a template nucleic acid from said subject;

(b) amplifying said template nucleic acid with a plurality of HLA allele-specific forward primers and HLA allele-specific reverse primers to form amplification products, wherein said forward primers or reverse primers comprise a detectable label;

(c) hybridizing said amplification products with an HLA locus-specific capture oligonucleotide immobilized on a solid phase to form a plurality of detectable complexes, wherein the HLA locus-specific capture oligonucleotide comprises SEQ ID NO:277; and

(d) detecting said detectable complexes to identify said HLA genotype of said subject.

30. (New) The method according to claim 29, wherein said capture oligonucleotides further comprise a 5' amine group or a 5'(T)5-20 oligonucleotide sequence.

31. (New) The method of claim 29, wherein the HLA locus-specific capture oligonucleotide consists of SEQ ID NO:277.

32. (New) The method according to claim 31, wherein said capture oligonucleotides further comprise a 5' amine group or a 5'(T)5-20 oligonucleotide sequence.

33. (New) A method for identifying an HLA genotype of a subject, the method comprising:

(a) obtaining a sample comprising a template nucleic acid from said subject;

(b) amplifying said template nucleic acid with a plurality of HLA allele-specific forward primers and HLA allele-specific reverse primers to form amplification products, wherein said forward primers or reverse primers comprise a detectable label;

(c) hybridizing said amplification products with an HLA locus-specific capture oligonucleotide to form a plurality of detectable complexes, wherein the HLA locus-specific capture oligonucleotide comprises SEQ ID NO:277;

(d) immobilizing said detectable complexes on a solid phase; and

(e) detecting said detectable complexes to identify said HLA genotype of said subject.

34. (New) The method according to claim 33, wherein said capture oligonucleotides further comprise a 5' amine group or a 5'(T)5-20 oligonucleotide sequence.

35. (New) The method of claim 33, wherein the HLA locus-specific capture oligonucleotide consists of SEQ ID NO:277.

36. (New) The method according to claim 35, wherein said capture oligonucleotides further comprise a 5' amine group or a 5'(T)5-20 oligonucleotide sequence.

37. (New) A method for identifying an HLA genotype of a subject, the method comprising:

(a) obtaining a sample comprising a template nucleic acid from said subject;

(b) amplifying said template nucleic acid with a plurality of HLA allele-specific forward primers and HLA allele-specific reverse primers to form amplification products, wherein said forward primers or reverse primers comprise a detectable label;

(c) hybridizing said amplification products with an HLA locus-specific capture oligonucleotide immobilized on a solid phase to form a plurality of detectable complexes, wherein the HLA locus-specific capture oligonucleotide is selected from the group consisting of SEQ ID NOS:270-273 and SEQ ID NOS:275-277; and

(d) detecting said detectable complexes to identify said HLA genotype of said subject.

38. (New) A method for identifying an HLA genotype of a subject, the method comprising:

(a) obtaining a sample comprising a template nucleic acid from said subject;

(b) amplifying said template nucleic acid with a plurality of HLA allele-specific forward primers and HLA allele-specific reverse primers to form amplification products, wherein said forward primers or reverse primers comprise a detectable label;

(c) hybridizing said amplification products with an HLA locus-specific capture oligonucleotide to form a plurality of detectable complexes, wherein the HLA locus-specific capture oligonucleotide is selected from the group consisting of SEQ ID NOS:270-273 and SEQ ID NOS:275-277;

(d) immobilizing said detectable complexes on a solid phase; and

(e) detecting said detectable complexes to identify said HLA genotype of said subject.